

## **What is claimed is:**

**[Claim 1]** A portable misting system for misting an object comprising:  
a portable enclosure comprising a first end and defining, at said first end, a receiving area for inserting the object, said enclosure further comprising an internal surface and an external surface, said internal surface comprising a hydrophobic material and further defining a drain opening receiving misted air during a drying cycle, said external surface comprising a condensing surface;  
a plurality of mist dispensers positioned within said enclosure; and  
a control device directing said misted air through said plurality of mist dispensers, said control device further activating an air flow system such that misted air within said enclosure exits said enclosure through said drain opening during said drying cycle and flows along and condenses on said condensing surface.

**[Claim 2]** The system of claim 1, wherein said enclosure comprises at least one of an inflatable material, a disposable material, a material molded for a specific use, or a collapsible material.

**[Claim 3]** The system of claim 1, wherein said misted air comprises at least one of an insect repellent, water, an ionized liquid, a tanning solution, a suntan solution, a soap, a shampoo, a disinfectant, a fuel, a fertilizer, or a spa treatment.

**[Claim 4]** The system of claim 1, wherein said internal surface is removable and disposable.

**[Claim 5]** The system of claim 1, wherein said control device comprises at least one of an electronic controller, a user operated pump system, or a series of ports for receiving pressurized air, misted air, misted gas, mist free air, scented air, or mist free gas.

The system of claim 1, wherein said enclosure comprises at least one of a helmet shape, a tubular shape, a free standing chamber, or a collapsible chamber.

**[Claim 6]** The system of claim 1, wherein said receiving area is defined such that it may receive at least one of a head, an animal, a vehicle, or an individual.

**[Claim 7]** The system of claim 1, wherein said control device comprises logic activating a misting cycle wherein a mist is directed out of said mist dispensers and said logic activating a soaping cycle.

**[Claim 8]** The system of claim 8, wherein said control device further comprises logic activating a drying cycle.

**[Claim 9]** The system of claim 8, wherein said controller further comprises logic activating a cleaning cycle in response to the object leaving said enclosure.

**[Claim 10]** The system of claim 1, wherein said control device controls blowing air into said enclosure or sucking air from said enclosure, thereby forcing misted air out of said enclosure and into an air channel partially defined by said condensing surface.

**[Claim 11]** The system of claim 1, wherein said mist dispensers comprise nozzles or spouts.

**[Claim 12]** The system of claim 1, wherein said control device is powered through at least one of CO<sub>2</sub> cartridges, solar panels, human movements, gravity pressure, fuel cells, wind, reactors, propane, pressurized water, solid fuel, or gas.

**[Claim 13]** The system of claim 1 further comprising a removable collector positioned at a base of said enclosure such that condensed water may descend into said collector for removal from the portable misting system.

**[Claim 14]** The system of claim 1 further comprising a mount coupled to said enclosure such that said enclosure may be coupled to country houses, cabins, rest areas, camping facilities, beaches, and military installations, RVs, maritime vessels, hospital beds, trucks, trains, airplanes, space vehicles, buses, mobile medical units, bus stations, truck stops, cruise lines, submarines, and leisure crafts.

**[Claim 15]** The system of claim 1, wherein said misted air comprises an ionized substance, said enclosure further comprising electrostatic collectors for attracting said ionized substance and directing said ionized substance toward the object.

**[Claim 16]** The system of claim 1 further comprising a hand held nozzle for spraying the user in areas not sufficiently covered by said mist dispensers.

**[Claim 17]** A drying system for drying an object comprising:

an enclosure comprising a primary wall and a secondary wall, said primary wall comprising an interior surface and an exterior surface, said interior surface of said primary wall defining a drying area, said interior surface comprising a hydrophobic surface, said exterior surface comprising a first condensing surface, said secondary wall comprising an inner surface, said inner surface of said secondary wall comprising a second condensing surface, wherein an air channel is defined between said exterior surface of said primary wall and said inner surface of said secondary wall such that water within mist flowing through said air channel condenses on said first condensing surface and said second condensing surface;

at least one blower coupled to said primary enclosure either blowing air into said enclosure or sucking air from said enclosure;

a control device activating said blower such that misted air within said enclosure is blown through said drain opening and flows along and condenses on said condensing surface; and

a collector positioned at a base of said air channel such that condensed water may descend into said collector for removal from the drying system.

**[Claim 18]** The system of claim 18, wherein said collector comprises a drain or a removable basin.

**[Claim 19]** The system of claim 18 further comprising a plurality of mist dispensers positioned within said enclosure, wherein said control device directs misted air through said plurality of mist dispensers.

**[Claim 20]** The system of claim 20 further comprising a hand held nozzle for spraying the object in areas not sufficiently covered by said mist dispensers.

**[Claim 21]** A misting system for misting a user comprising:

an enclosure defining a receiving area for receiving the user, said enclosure further comprising an internal surface and an external surface, said internal surface further defining a drain opening receiving misted air during a drying cycle, said external surface comprising a condensing surface;

a plurality of mist dispensers positioned within said enclosure such that the user may receive a uniform coating of a misted substance; and

a control device directing said misted substance through said plurality of mist dispensers, said control device further activating an air flow system such that misted air within said enclosure exits said enclosure through said drain opening during said drying cycle and flows along and condenses on said condensing surface.

**[Claim 22]** The system of claim 22, wherein said internal surface comprises a mist repellent material or coating.

**[Claim 23]** The system of claim 22, wherein said misted substance comprises at least one of water, an ionized liquid, insect repellent, medical equipment sterilizer, soap, skin moisturizer, nasal decongestant, artificial suntan, suntan lotion, or spa treatments.

**[Claim 24]** The system of claim 22, wherein said enclosure comprises a cylindrical, cubicle, conical, or irregular shape.

**[Claim 25]** The system of claim 22 further comprising a user accessible misted substance input tank receiving a substance to be misted from the user.

**[Claim 26]** The system of claim 22 further comprising an input display, whereby commands are entered for physical dimensions of the user such that the system conserves the misted substance by either said plurality of mist dispensers aimed at the user or only operating a portion of said plurality of mist dispensers corresponding with said physical dimensions of the user.

**[Claim 27]** The system of claim 22 further comprising at least one height sensor generating a height of user signal.

**[Claim 28]** The system of claim 22, wherein said control device receives at least one of: a height of user signal, a temperature within said enclosure signal, or a distance signal and adjusts said plurality of mist dispensers as a function thereof.

**[Claim 29]** The system of claim 22 further comprising at least one distance sensor generating a distance signal as a function of a distance between said plurality of mist dispensers and the user.

**[Claim 30]** The system of claim 22, wherein said enclosure defines at least one drain for receiving said misted substance.

**[Claim 31]** The system of claim 22 further comprising a disposable or removable enclosure liner lining said internal surface of said enclosure.

**[Claim 32]** The system of claim 22, wherein said misted substance is ionized, said enclosure further comprising electrostatic collectors for attracting said ionized misted substance and directing said misted substance toward the user.

**[Claim 33]** The system of claim 22 further comprising a mount coupled to said enclosure such that said enclosure may be coupled to country houses, cabins, rest areas, camping facilities, beaches, and military installations, RVs, maritime vessels, hospital beds, trucks, airplanes, space vehicles, trains, buses, and mobile medical units.

**[Claim 34]** The system of claim 22 further comprising a hand held nozzle for spraying the user in areas not sufficiently covered by said mist dispensers.

**[Claim 35]** The system of claim 22, wherein said control device is powered through at least one of CO<sub>2</sub> cartridges, wind, solar panels, human movements, gravity pressure, fuel cells, reactors, propane, pressurized water, solid fuel, or gas.

**[Claim 36]** The system of claim 22 further comprising user adjustable nozzles.

**[Claim 37]** A misting system for misting a user comprising:

an enclosure defining a receiving area for receiving the user, said enclosure further comprising an internal surface and an external surface, said internal surface further defining a drain opening receiving misted air during a drying cycle, said external surface comprising a condensing surface;

a disposable or removable enclosure liner lining said internal surface of said enclosure; a plurality of mist dispensers positioned within said enclosure such that the user may receive a uniform coating of a misted substance;

a hand held nozzle for spraying the user in areas not sufficiently covered by said mist dispensers; and

a control device directing said misted substance through said plurality of mist dispensers, said control device further activating an air flow system such that misted air within said enclosure exits said enclosure through said drain opening during said drying cycle and flows along and condenses on said condensing surface.

**[Claim 38]** The system of claim 38, wherein said misted substance is ionized, said enclosure further comprising electrostatic collectors for attracting said ionized misted substance and directing said misted substance toward the user.

**[Claim 39]** The system of claim 38 further comprising a mount coupled to said enclosure such that said enclosure may be coupled to country houses, cabins, rest areas, camping facilities, beaches, and military installations, RVs, maritime vessels, hospital beds, trucks, airplanes, space vehicles, trains, buses, and mobile medical units.